RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	09/484.964A
Source:	1FW16.
Date Processed by STIC:	7/10/06
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IFW16

RAW SEQUENCE LISTING DATE: 07/10/2006
PATENT APPLICATION: US/09/484,964A TIME: 12:30:50

Input Set : F:\Utsh248US.TXT

Output Set: N:\CRF4\07102006\I484964A.raw

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4 <110> APPLICANT: YEH, EDWARD T.H.
     6 <120> TITLE OF INVENTION: USES FOR A NOVEL CELL-DEATH-PROTECTING PROTEIN
     8 <130> FILE REFERENCE: UTSH:248US
     10 <140> CURRENT APPLICATION NUMBER: 09/484,964A
     11 <141> CURRENT FILING DATE: 2000-01-18
     13 <150> PRIOR APPLICATION NUMBER: 08/964,162
     14 <151> PRIOR FILING DATE: 1997-11-04
     16 <150> PRIOR APPLICATION NUMBER: 60/030,302
     17 <151> PRIOR FILING DATE: 1996-11-05
     19 <160> NUMBER OF SEQ ID NOS: 18
     20 <170> SOFTWARE: PatentIn Ver. 2.0
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     25 <212> TYPE: DNA
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     32 agaceceegg gtgaagecae egteate atg tet gae eag gag gea aaa eet tea 114
     33
                                      Met Ser Asp Gln Glu Ala Lys Pro Ser
     34
     35 act gag gac ttg ggg gat aag aag caa ggt gaa tat att aaa ctc aaa
                                                                           162
     36 Thr Glu Asp Leu Gly Asp Lys Lys Gln Gly Glu Tyr Ile Lys Leu Lys
                             15
     38 gtc att gga cag gat agc agt gag att cac ttc aaa gtg aaa atg aca
                                                                           210
     39 Val Ile Gly Gln Asp Ser Ser Glu Ile His Phe Lys Val Lys Met Thr
     40
                         30
     41 aca cat ctc aag aaa ctc aaa gaa tca tac tgt caa aga cag ggt gtt
                                                                           258
     42 Thr His Leu Lys Lys Leu Lys Glu Ser Tyr Cys Gln Arg Gln Gly Val
                     45
                                         50
                                                                           306
     44 cca atg aat tca ctc agg ttt ctc ttt gag ggt cag aga att gct gat
     45 Pro Met Asn Ser Leu Arg Phe Leu Phe Glu Gly Gln Arg Ile Ala Asp
                                     65
     47 aat cat act cca aaa gaa ctg gga atg gaa gaa gat gtg att gaa
                                                                           354
     48 Asn His Thr Pro Lys Glu Leu Gly Met Glu Glu Glu Asp Val Ile Glu
             75
                                 80
     50 gtt tat cag gaa caa acg ggg ggt cat tca aca gtt tagatattct
                                                                           400
     51 Val Tyr Gln Glu Gln Thr Gly Gly His Ser Thr Val
     53 ttttattttt tttcttttcc ctcaatcctt ttttattttt aaaaatagtt cttttgtaat 460
     54 gtggtgttca aaacggaatt gaaaactggc accccatctc tttgaaacat ctggtaattt 520
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Output Set: N:\CRF4\07102006\I484964A.raw

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    57 cacctttttc aggacattgc attttcaggc ttgtggtgat aaataagatc gaccaatgca 700
    58 agtgttcata atgactttcc aattggccct gatgttcagc atgtgattac ttcactcctg 760
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    62 cactgaagaa aaggcatttt aagatttttt aaaaatcttg tcagaagatc ccagaaaagt 1000
    63 tctaattttc attagcaatt aataaagcta tacatgcaga aatgaataca acagaacact 1060
    64 gctcttttta gattttattt gtactttttg gcctgggata tgggttttaa atggacattg 1120
    65 tetgtaceag etteattaaa ataaacaata tttgteaaaa ategtaetaa tgettatttt 1180
     66 attttaattg tatagaaaga aaaaaatgcc taaaataagg ttttcttgca taaatactgg 1240
     67 aaattgcaca tggtacaaat tttttcttca ttactgtaca gggatgatgt taatgacttt 1300
     68 ggagcactga aagttactga agtgccttct gaatcaagga tttaattaag gccacaatac 1360
     69 ctttttaata ctcagtgttc tgtttttttt aaaaacttga tattcccgta tggtgcatat 1420
     70 ttgatacagg tacccaatca tgttggataa atgggcatgc cagcc
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    74 <212> TYPE: PRT
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                                             10
     80 Lys Gln Gly Glu Tyr Ile Lys Leu Lys Val Ile Gly Gln Asp Ser Ser
                     20
                                         25
    82 Glu Ile His Phe Lys Val Lys Met Thr Thr His Leu Lys Lys Leu Lys
    83
                 35
                                     40
     84 Glu Ser Tyr Cys Gln Arg Gln Gly Val Pro Met Asn Ser Leu Arg Phe
    86 Leu Phe Glu Gly Gln Arg Ile Ala Asp Asn His Thr Pro Lys Glu Leu
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    95 <212> TYPE: DNA
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    99 <222> LOCATION: (53)
    100 <223> OTHER INFORMATION: Y = C or T
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DATE: 07/10/2006

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Input Set : F:\Utsh248US.TXT Output Set: N:\CRF4\07102006\1484964A.raw 107 <222> LOCATION: (739) 108 <223 > OTHER INFORMATION: N = A, C, G or TW--> 109 <220> FEATURE: 110 <221> NAME/KEY: modified base 111 <222> LOCATION: (744) 112 <223> OTHER INFORMATION: N = A, C, G or T 114 <400> SEQUENCE: 3 115 cggcacgagg gtgctgcttg tgtgctcgtt tggtgcggac ctggtacctc ttyttgtgaa 60 116 geggeagetg aggagaetee ggegetegee atggeegaeg aaaageeeaa ggaaggagte 120 117 aagactgaga acaacgatca tattaatttg aaggtggcgg ggcaggatgg ttctgtggtg 180 118 cagtttaaga ttaagaggca tacaccactt agtaaactaa tgaaagccta ttgtgaacga 240 119 cagggattgt caatgaggca gatcagattc cgatttgacg ggcaaccaat caatgaaaca 300 120 gacacacctg cacagttgga aatggaggat gaagatacaa ttgatgtgtt ccaacagcag 360 121 acgggaggtg tctactgaaa agggaacctg cttctttact ccagaactct gttctttaaa 420 122 gaccaagatt acatteteaa ttagaaaact geaatttggt tecaccacat cetgactact 480 123 acceptatagt titctctatt cittcatitic ececticece attectitat igiacataaa 540 124 gtaactggta tatgtgcaca agcatattgc atttttttt tttttaacta aacagccaat 600 125 ggtatgtttt gattgacatc caagtggaga cggggatggg gaaaaatact gattctgtgg 660 W--> 126 aaaatacccc cctttctccc attagtggnc atgctccatt cagcccttaa acctttataa 720 127 teccaggiaa ggiaatting ceencacegg tittacecaa aaaaaaaaaa acti 129 <210> SEO ID NO: 4 130 <211> LENGTH: 95 131 <212> TYPE: PRT 132 <213> ORGANISM: Homo sapiens 134 <400> SEQUENCE: 4 135 Met Ala Asp Glu Lys Pro Lys Glu Gly Val Lys Thr Glu Asn Asn Asp 136 5 137 His Ile Asn Leu Lys Val Ala Gly Gln Asp Gly Ser Val Val Gln Phe 25 139 Lys Ile Lys Arg His Thr Pro Leu Ser Lys Leu Met Lys Ala Tyr Cys 140 35 40 141 Glu Arg Gln Gly Leu Ser Met Arg Gln Ile Arg Phe Arg Phe Asp Gly 55 143 Gln Pro Ile Asn Glu Thr Asp Thr Pro Ala Gln Leu Glu Met Glu Asp 70 75 145 Glu Asp Thr Ile Asp Val Phe Gln Gln Gln Thr Gly Gly Val Tyr 148 <210> SEQ ID NO: 5 149 <211> LENGTH: 1733 150 <212> TYPE: DNA 151 <213> ORGANISM: Homo sapiens W--> 152 <220> FEATURE: 153 <221> NAME/KEY: modified base 154 <222> LOCATION: (19) 155 <223> OTHER INFORMATION: N = A, C, G or T 157 <400> SEQUENCE: 5 W--> 158 ttcggcacag gcgggaganc ggcggggccg aagcgtgaac tcgcccgctc cggcttgctt 60 159 cccccgcgcc gcctccccgc gccgctcgga agccatgtcc gaggagaagc ccaaggaggg 120 160 tgtgaagaca gagaatgacc acatcaacct gaaggtggcc gggcaggacg gctccgtggt 180

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/484,964A

RAW SEQUENCE LISTING DATE: 07/10/2006
PATENT APPLICATION: US/09/484,964A TIME: 12:30:50

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Output Set: N:\CRF4\07102006\I484964A.raw

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163 tgacacteca geacagetga gaatggagga egaggacace ategaegtgt tecageagea 360
164 gacgggaggt gtgccggaga gcagcctggc agggcacagt ttctagaggg cccgtcccca 420
165 gcccgggccg tccatcctcg cattgctgtt gaatggtgag cacgtgacca tgccgaccac 480
166 aaaqqtgtct gcggaaactc gaggacattc accacgatga ttttcctctc tttgatgtac 540
167 ttcaagtgca actcaaaact atatctgcag ggatgaatct gtaacttaaa ttgggccaat 600
168 cagaattgtt atctttgttc aggtaaaatg agttgcaaga tattgtgggt acttttgtgt 660
169 geteattigt gitticeece eeteetacaa eattiittia aeeecaaaat tatageetga 720
170 atgttcgctt ttagtctggc cagggatctg actcctgagt tggttgcctc tcccctgctc 780
171 actocagtca catagagaat tggtgtttcc cgcagtgggg attgcagctg ttggacaggt 840
172 attgggggca aggttggtag ggaggacaga ctgtcacttg ctgttacagg cacaggtgat 900
173 taaaatgcta aatattgcaa atttaagctt tgtcagtata tggaaaagtt gaagggaaaa 960
174 tactggaatg cttcttcaaa ggttaaaaaa taaccgagtc ttttggtaat ttgaccccac 1020
175 gtgctctctg gccctcaagc atgtaacctc ggggtctgag gcccaggacc caccccctg 1080
176 ccacccctcc caccccactc cctgctcagt acctggcgtt ggtacacagg caaggattgg 1140
177 cacaaccaaa attggccttt ttctccctct taatattgaa gaaattccca catttctcat 1200
178 ttggtaatgg tgttgtggcc tcagatttct tctagtattt gcttctgatg aatgattatg 1260
179 gtctatacat aaaaaagtaa gactaagtat tgctgaattt gcagttatgt tgtcgtgtat 1320
180 aaqaqctact tccaagtqtg gttacaaatg aacccatgga atgatgactt catgttcttc 1380
181 tcgtgggttt gtgccgtgct gctttccaaa taggtattga atttatgcat tagtctggtg 1440
182 atttcagttc tgtgaaatat tttgggatct ataccaatta aacattttca tagttctgcc 1500
183 tattgtcctt ccctgaggct ccattgctgc ttggtggcca ttctctgcct ttttacagtc 1560
184 acctgaacaa tgacccatca tctcttgctt gcttgaaatc ttgctgaaat gttctcattt 1620
185 cctgtttgct gtatgggctc gggtgggatg tttgttggct ctgttgtgtt tattcaccaa 1680
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191 <213> ORGANISM: Homo sapiens
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196 Ile Asn Leu Lys Val Ala Gly Gln Asp Gly Ser Val Val Gln Phe Lys
                 20
                                     25
198 Ile Lys Arg His Thr Ser Leu Ser Lys Leu Met Lys Ala Tyr Cys Glu
            35
                                 40
200 Arg Gln Gly Leu Ser Met Arg Gln Ile Arg Phe Arg Phe Asp Gly Gln
                             55
202 Pro Ile Asn Glu Thr Asp Thr Pro Ala Gln Leu Arg Met Glu Asp Glu
203
                         70
                                             75
204 Asp Thr Ile Asp Val Phe Gln Gln Gln Thr Gly Gly Val Pro Glu Ser
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206 Ser Leu Ala Gly His Ser Phe
207
                100
209 <210> SEQ ID NO: 7
210 <211> LENGTH: 9
211 <212> TYPE: PRT
212 <213> ORGANISM: Artificial Sequence
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DATE: 07/10/2006

TIME: 12:30:50

Input Set : F:\Utsh248US.TXT Output Set: N:\CRF4\07102006\I484964A.raw W--> 213 <220> FEATURE: 214 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide 217 <400> SEQUENCE: 7 218 Arg Gly Ser His His His His His 219 1 221 <210> SEQ ID NO: 8 222 <211> LENGTH: 30 223 <212> TYPE: DNA 224 <213> ORGANISM: Homo sapiens 226 <400> SEQUENCE: 8 30 227 cttaggatcc atggcctcgg aagacattgc 229 <210> SEQ ID NO: 9 230 <211> LENGTH: 30 231 <212> TYPE: DNA 232 <213> ORGANISM: Homo sapiens 234 <400> SEQUENCE: 9 30 235 gtgtgaattc tagaccttgt acagcgtctg 238 <210> SEQ ID NO: 10 239 <211> LENGTH: 7 240 <212> TYPE: PRT 241 <213> ORGANISM: Artificial Sequence W--> 242 <220> FEATURE: 243 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic 244 Peptide 246 <400> SEQUENCE: 10 247 Arg Gly Ser His His His His 248 1 250 <210> SEQ ID NO: 11 251 <211> LENGTH: 9 252 <212> TYPE: PRT 253 <213> ORGANISM: Influenza virus 255 <400> SEQUENCE: 11 256 Tyr Pro Tyr Asp Val Pro Asp Tyr Ala 257 1 259 <210> SEQ ID NO: 12 260 <211> LENGTH: 4 261 <212> TYPE: PRT 262 <213> ORGANISM: Homo sapiens 264 <400> SEQUENCE: 12 265 His Ser Thr Val 266 1 268 <210> SEQ ID NO: 13 269 <211> LENGTH: 101 270 <212> TYPE: PRT 271 <213> ORGANISM: Saccharomyces cerevisiae 273 <400> SEQUENCE: 13 274 Met Ser Asp Ser Glu Val Asn Gln Glu Ala Lys Pro Glu Val Lys Pro 10 15 275 1 5 .

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/484,964A

7/10/2006

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/10/2006 PATENT APPLICATION: US/09/484,964A TIME: 12:30:51

Input Set : F:\Utsh248US.TXT

Output Set: N:\CRF4\07102006\1484964A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 689/73/9,744

Seq#:5; N Pos. 19

VERIFICATION SUMMARY PATENT APPLICATION: US/09/484,964A DATE: 07/10/2006 TIME: 12:30:51

Input Set : F:\Utsh248US.TXT

Output Set: N:\CRF4\07102006\I484964A.raw

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L:30 M:283 W: Missing Blank Line separator, <400> field identifier
L:97 M:283 W: Missing Blank Line separator, <220> field identifier
L:101 M:283 W: Missing Blank Line separator, <220> field identifier
L:105 M:283 W: Missing Blank Line separator, <220> field identifier
L:109 M:283 W: Missing Blank Line separator, <220> field identifier
L:109 M:283 W: Missing Blank Line separator, <220> field identifier
L:126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:660
M:341 Repeated in SeqNo=3
L:152 M:283 W: Missing Blank Line separator, <220> field identifier
L:158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:213 M:283 W: Missing Blank Line separator, <220> field identifier
L:242 M:283 W: Missing Blank Line separator, <220> field identifier